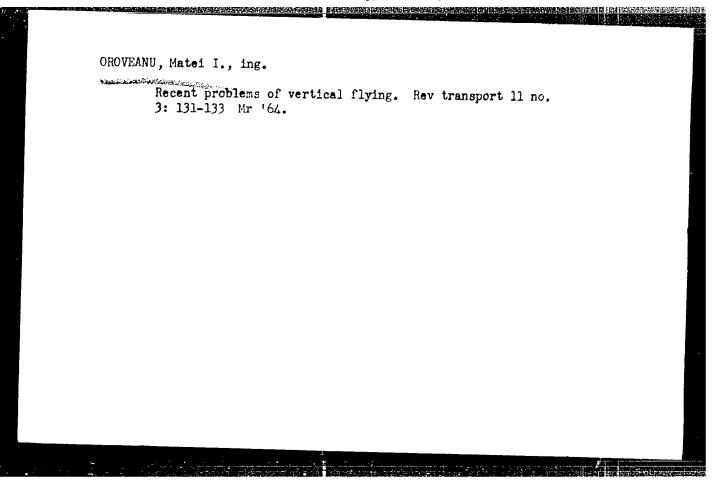
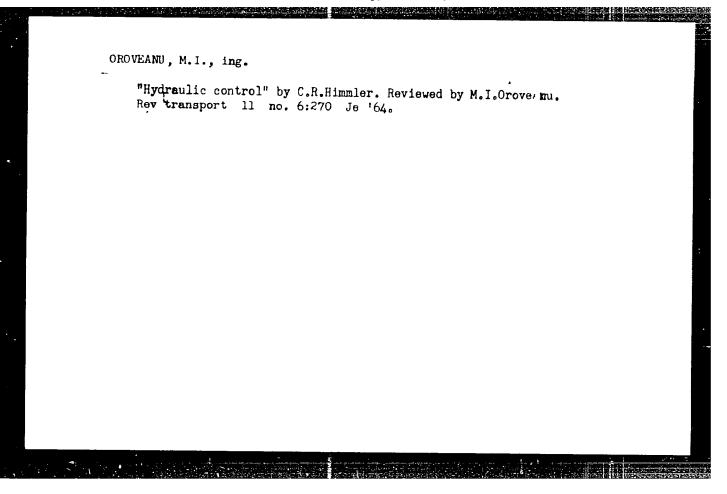
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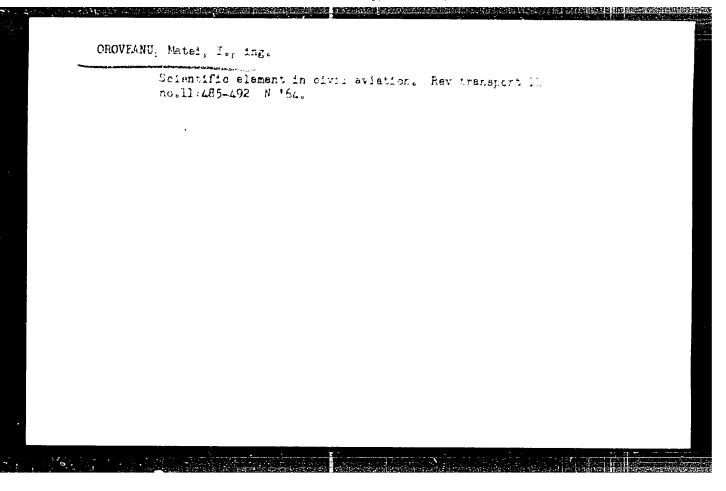
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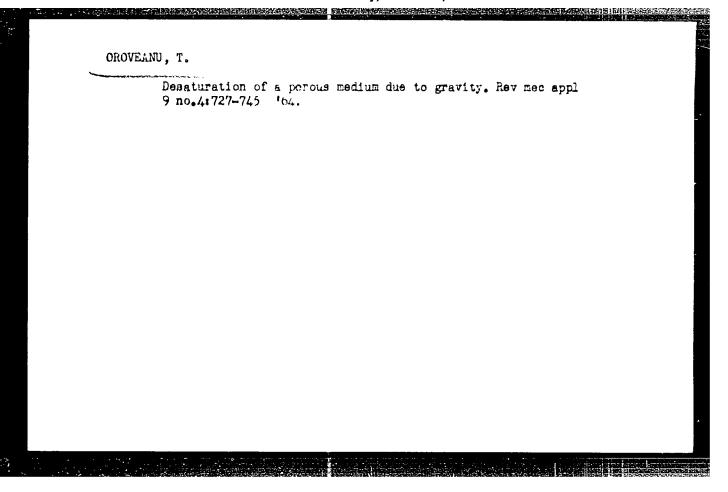


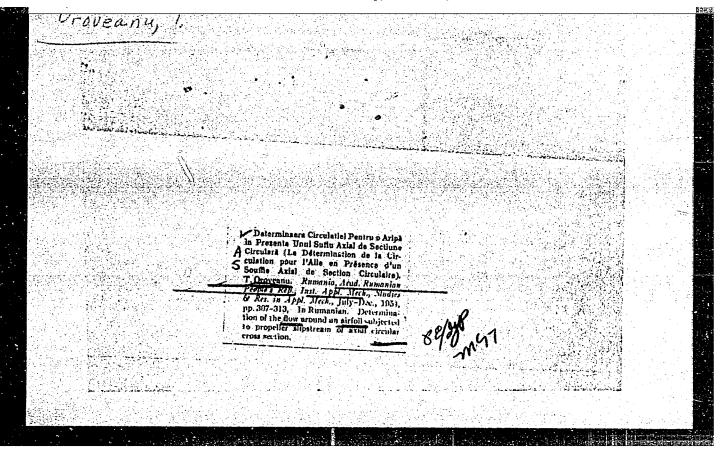


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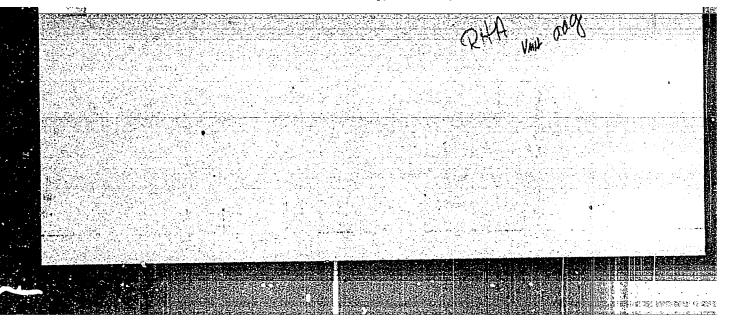
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SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 5, no. 9, Sept. 1955

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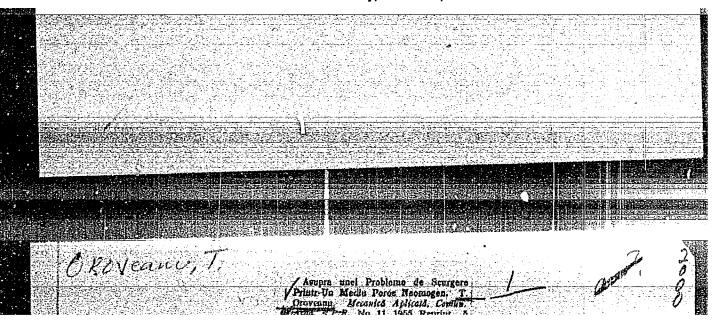
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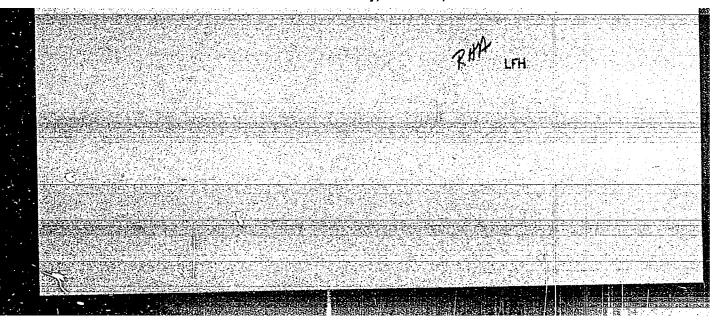
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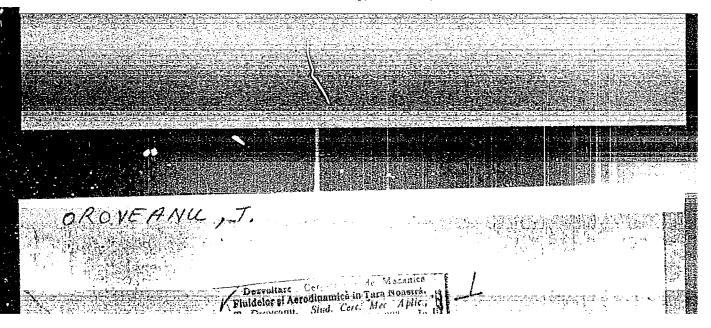
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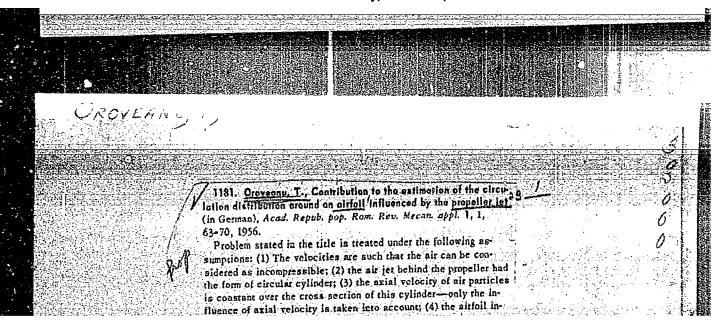
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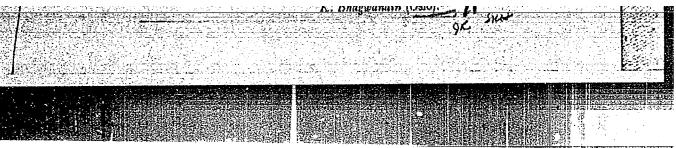


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The speed of plane waves in a compressible mixture of liquid and gas. p. 419. Academia Republicii Populare Romine. COMUNICARILE. Bucuresti. Vol. 6, no. 3, Mar. 1956.

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 5, no. 9, Sept. 1955

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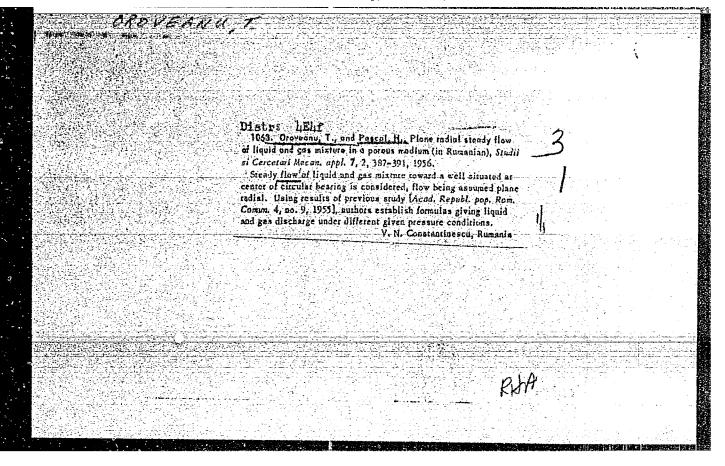


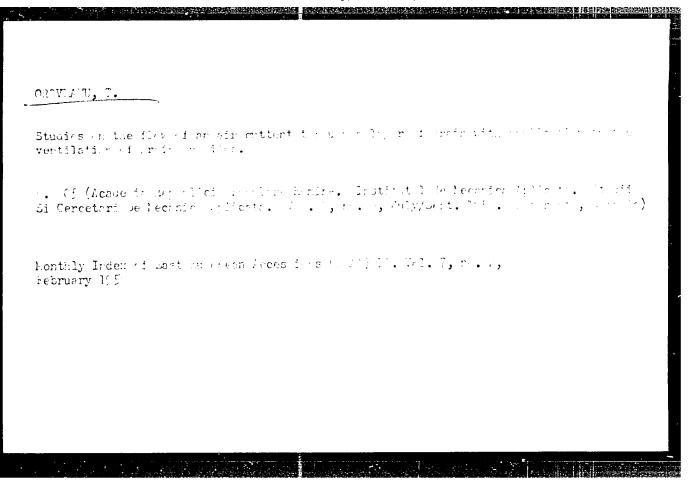
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On a class of flows through nonhomogenous porous media. p. 937.

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R/008/60/000/004/003/018 A125/A126

AUTHOR:

Oroveanu, T.

TITLE:

On the liquid - liquid dislocation in a porous medium

PERIODICAL:

Studii și Carostări de Mecanică Aplicată, no. 4, 1960, 847 - 863

TEXT: The author presents some contributions to the clarification of the dislocation of one liquid by another liquid, especially applied to the exploitation of oil deposits, into which water has been injected. The law of Darsy is supposed to be valied. The problem has been studied before by A. M. Pirverdian (Ref. 7: Dvizheniye dvukhfazncy neszhimayemoy smesi v poristoy srede. Prikladnaya matematika i mekhanika XVI, 6, 711 - 714) and by S. N. Buzinov and I. A. Charnyy (Ref. 2: O dvizhenii skachkov nasyshohennosti pri fil'tratsii dvukhfaznoy zhidkosti. Izvestiya Akademii Nauk, SSSR, OTN, 7, 142 - 146, 1957). Considering the usual hypotheses concerning the flow of liquids through porous media, the author establishes the differential equation of the linear flow. Because of the expressions representing the effect of the capillarity this equation cannot be integrated by the usual method. If this capillarity effect is neglected, one arrives at an equation with partial derivatives of the first

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On the liquid - liquid dislocation ....

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order - quasi-linear - for which the problem can be solved easily with the initial values. The existance of a displacement front has been proved in the theory of S. E. Buckley and M. S. Leverett (Ref. 1: Mechanism of Fluid Displacement in Sands. AIME Transactions, 146, 107 - 116, 1942). The effect of gravitation has been studied by the author by using some simplifying hypotheses of A. M. Pirverdian (Ref. 6: 0 dvizhenii podoshvennoy vody v poristoy srede. Prikladnaya matematika 1 mekhanika, XVI, 2, 223 - 226, 1952) and I. A. Charnyy (Ref. 3: Dvizheniye granitsy rasdela dvukh zhidkostey v poristoy srede. Izvestiya Akademii Nauk SSSR, OTN, Energetika i avtomatika, 3, 104 - 120, 1959). In case of a non--homogeneous porous medium, the displacement phenomenon is influenced only by the variation of the porosity. There are 9 references: 5 Soviet-bloc and 4 non--Soviet-bloc. The three references to the English language publications read as follows: S. E. Buckley, M. C. Leverett, Mechanism of Fluid Displacement in Sands, AIME Transactions, 146, 107 - 116, 1942; M. Musket, Physical Principles of Oil Production. McGraw Hill, New York, 1949, 311 - 321.; D. R. Shrewe, L. W. Welch, Jr.: Gas Drive and Gravity Drainage Analysis for Pressure Maintenance operations. Journal of Petroleum Technology, June, 136 - 143, 1956.

SUBMITTED:

March 3, 1960

Card 2/2

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AUTHOR:

Oroveanu, T.

TITLE:

On the flow of gases through non-homogeneous porous media

PERIODICAL: Studii și Cercetări de Mecanică Aplicată, no. 5, 1960, 1249 -

1267

The author reviews the possibilities for solving the problem TEXT: of the flow of gases through porous media of variable permeability, indicating some approximate solutions for the stationary and non-stationary motions, supposing that the permeability and porosity variations satisfy some conditions mentioned in the article. Referring first to the non-stationary flow of a gas through a non-homogeneous and anisotropic porous medium, he establishes the continuity equation  $\frac{\partial}{\partial x_i}(\rho v_i) = -m \frac{\partial \rho}{\partial t},$ 

in which m is the porosity,  $\rho$  the specific mass of the gas and  $v_1$  the components of the filtration speed. Then, the author deduces the equation

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$$\frac{\partial}{\partial x_i} \left( \frac{k_{ij}}{\mu_i} \frac{\partial p^{n+1}}{\partial x_j} \right) = (n+1) m \frac{\partial p^n}{\partial t}. \tag{7}$$

in which p is the pressure,  $k_1$ ; the components of the permeability tensor in function of the  $x_1$  coordinates, and  $\mu$  the dynamic viscosity of the gas. Since the flow in the gas deposits is isothermic, n can be considered to be equal to 1 (n = 1), and (7) changes into  $\frac{\partial}{\partial x_i} \left( \frac{k_{ij}}{\mu} \frac{\partial p^2}{\partial x_i} \right) = 2m \frac{\partial p}{\partial t}.$ 

$$\frac{\partial}{\partial x_i} \left( \frac{k_{ij}}{\mu} \frac{\partial p^2}{\partial x_i} \right) = 2m \frac{\partial p}{\partial t}. \tag{8}$$

The simplified equation

$$\frac{\partial}{\partial x_i} \left( k_{ii} \frac{\partial p^{n+1}}{\partial x_i} \right) = (n+1) m \mu \frac{\partial p^n}{\partial t}, \qquad (10)$$

represents the case in which the gas viscosity is not very accentuated, and the pressure differences are not very great. If the gas is not ideal as considered before, the continuity equation can be expressed by

$$\frac{\partial}{\partial x_i} \left( \frac{1}{\mu Z} k_{ij} \frac{\partial p^2}{\partial x_i} \right) = \frac{2m}{Z} \left[ \frac{\partial p}{\partial t} - p \frac{\partial (\log Z)}{\partial t} \right]. \tag{12}$$

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(28)

On the flow of gas a throngs non-homogeneous...

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in which Z is the deviation factor, variable with the pressure. Since the equations (7) and (12) cannot be solved, the author assumes that the porous medium be isotropic, but non-homogeneous, and obtains the equation  $\frac{\partial}{\partial x_i} \left( \frac{k}{\mu Z} \frac{\partial p^2}{\partial x_i} \right) = \frac{2m}{Z} \left[ \frac{\partial p}{\partial t} - p \frac{\partial (\log Z)}{\partial t} \right]. \tag{15}$ 

indicating the particularity of the isothermic flow. For the case of stationary flow, linear flow is expressed in formulas leading to equation

$$\frac{\partial}{\partial x_i} \left( k \frac{\partial \Psi}{\partial x_i} \right) = 0 \qquad (i = 1, 2, 3). \tag{20}$$

The obtained result reduces the problem to the stationary flow of a noncompressible fluid through a non-homogeneous porous medium. The simplest particular case is given if the function ky is harmonical, since y then is also harmonical. Another approximating solution is tried on the grounds that the permeability varies between approximate limits. The problem is thus reduced to the determination of a harmonic function, finally obtaining the first category of approximate solutions. The equation (20) can also be written in the form of  $\frac{\partial^2 \psi}{\partial x_i \partial x_i} + \frac{\partial (\log k)}{\partial x_i} \frac{\partial \psi}{\partial x_i} = 0,$ 

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on the basis of which one obtains other approximate solutions, supposing that the function k has a slow variation, with the upper and lower limits being very close to each other. Considering further derivatives of these functions for certain cases, accurate solutions can be obtained by using the method of variable separation, leading to the equations

$$\frac{d^2X_1}{d\sigma_1^2} + \frac{1}{k_1} \frac{dk_1}{dx_1} \frac{dX_1}{dx_1} + \lambda_n^2 X_1 = 0$$
 (38)

$$\frac{d^2X_2}{dx_2^2} + \frac{1}{k_2} \frac{dk_2}{dx_2} \frac{dX_2}{dx_3} - \lambda_n^2 X_2 = 0, \tag{39}$$

 $\tilde{\lambda}_n^2$  being the separating constant. The solution of these two equations de-

pends on the functions 
$$\frac{1}{k_1}\frac{dk_1}{dx_1} = \frac{d\left(\log^2 k_1\right)}{dx_1}, \frac{1}{k_2}\frac{dk_2}{dx_2} = \frac{d\left(\log k_2\right)}{dx_2}. \tag{40}$$
 By separating the variables, solutions can be obtained through

$$\frac{d^2\xi_2}{dx_2^2} + \left[\beta^2 - \lambda_n^2 + f_2(x_2)\right]\xi_2 = 0, \tag{48}$$

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R/008/60/000/005/011/014 A231/A126

with  $\lambda_n^2$  being the separating constant. For the case of non-stationary flow of a gas through a non-homogeneous porous medium, there are some difficulties due to the non-linear differential equation of the problem. The linearization of the differential equation can be accomplished without taking the variation of viscosity and the pressure into consideration. Admitting that the flow is isothermic (n = 1), initial formulas can be expressed by

$$\frac{\partial}{\partial x_i} \left( \frac{k}{\mu} \, p \, \frac{\partial p}{\partial x_i} \right) = m \, \frac{\partial p}{\partial t} \,. \tag{49}$$

leading to the equations

$$\frac{\partial}{\partial x_i} \left( k \frac{\partial f}{\partial x_i} \right) = m \left[ a + \alpha b \left( \frac{1}{\mu} \right)_m \right] \frac{\partial f}{\partial t} \tag{59}$$

$$\frac{\partial}{\partial x_i} \left( k \frac{\partial f}{\partial x_i} \right) = \times m \frac{\partial f}{\partial t}, \qquad (60)$$

into which the notation  $x = a + ab(\frac{1}{a})_m$ , (61) has been introduced. To justify the approximations, the author mentions an example taking as the starting point the viscosity of methane at a temperature of  $t = 75^{\circ}$ C. The values of the viscosity for different pressures as well as the value of the  $\frac{1}{12}$  ratio

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are tabulated. The function of is calculated by graphical integration leading to tabulated values of the variation curve of the  $\frac{1}{2}$ , and  $(\frac{1}{2})_m$  functions. These values supply for the considered pressure interval: [(1)m medium The constants x and \$\beta\$ of the function f can be computed by the formulae

 $\alpha = \frac{\log \frac{\overline{\omega}_2}{\overline{\omega}_1}}{\overline{\omega}_2 - \overline{\omega}_1} , \quad \beta = \frac{\alpha \left(\overline{\omega}_2^{g} - \overline{\omega}_1^{g}\right)}{2 \left(e^{\alpha \overline{\omega}_1} - e^{\alpha \overline{\omega}_1}\right)},$ (62)

with  $\omega_1$  and  $\omega_2$  being the values of the function  $\omega_2$  corresponding to the pressures p1 and p2. Similar conclusions can be obtained by starting from the variation of the gas viscosity with the pressure at other temperatures. The problem can be studied by starting from the equation (60). Another difficulty is that, except the permeability k, the porosity m can also be variable from one point to the other. The establishment of a ratio between the permeability and porosity was not satisfactorily solved yet. Thus, the permeability and the porosity have to be considered as two independent points. In case of a simple linear flow; the flowing phenomenon depends on a single spatial variable x, the equation (60) can be expressed by

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easily obtaining the solution  $f = f_1(x) + f_2(t)$ , (64). The author first examines the possibilities of finding a solution in form of a product. Assuming for the pressure the initial condition t = 0,  $p = p_i$ , in which  $p_i$  is a constant, as well as the limit conditions x = 0,  $p = p_g$ ; x = 1,  $\frac{\partial D}{\partial x} = 0$ , the pressure  $p_B$  having a constant value, the author doduces the solution in the form of a product:  $F_p = F_{1n}(x)F_{2n}(t)$ , (71). The separation of the variables leads to the solution of a Sturm-Liouville problem in the form of a normal equation of Liouville

$$\frac{d^{2}y_{n}}{d\xi^{2}} + \left[v_{n}^{2} - g(\xi)\right]y_{n} = 0, \tag{77}$$

The solution of this equation is finally given by a non-homogeneous Volteratype integral equation of the second order

$$y_{n}(\xi) = A_{1n} \sin(v_{n}\xi) + B_{1n} \cos(v_{n}\xi) + \frac{1}{v_{n}} \int_{0}^{\xi} \sin[v_{n}(\xi - \tau)] g(\tau) y_{n}(\tau) d\tau.$$
 (80)

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On the flow of gases through non-homogeneous...

On the basis of the first limit condition, the author deduces the approximate solution of  $F_{1n}$ , the proper values  $\nu_n$  to be determined by the second limit condition. After having determined the constants  $\mathbb{D}_n$  by the initial condition, one easily finds the equation of  $\omega_n$ 

$$\tilde{\omega} = \frac{1}{\alpha} \log \left[ \frac{1}{\beta} (km)^{-\frac{1}{4}} \sum_{n=0}^{\infty} D_n \sin \left( \frac{2n+1}{2} \xi \right) e^{-\frac{(2n+1)^2}{4P_N} \xi} + e^{\alpha \tilde{\omega}_n} \right]$$
(91)

and the pressure p, with the aid of the constructed of (p) curve. The approximate solution becomes accurate if the k-m product is constant, which can be obtained by admitting some particular variation laws for the k and m values. The approximation introduced becomes more favorable with n increasing. In case of a plane - radial flow, the equation (60) is expressed by

$$\frac{1}{r} \frac{\partial}{\partial r} \left( k r \frac{\partial f}{\partial r} \right) = \kappa m \frac{\partial f}{\partial t} . \tag{92}$$

Considering the initial conditions and the limit conditions, one finds the equations  $\frac{d}{dr}\left(kr\frac{dF_{1n}}{dr}\right) + \lambda_n^2 \, mr \, F_{1n} = 0 \tag{96}$ 

$$\frac{dF_{2n}}{dt} + \frac{\lambda_n^2}{\kappa} F_{2n} = 0. {(97)}$$

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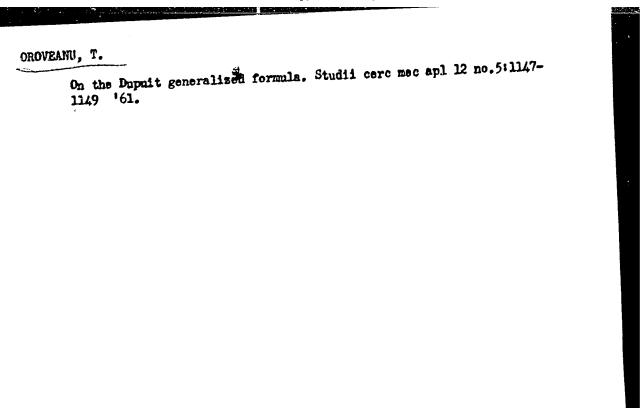
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With regard to the first equation (96), the change of function

was found in equation (77). The author has indicated in this paper some special methods of approximate solutions for the stationary and non-stationary flow of gases through porous media of variable permeability. There are 5 tables and 12 references: 9 Soviet-bloc and 3 non-Soviet-bloc. The reference to the English-language publication reads as follows: Ph. Morse, H. Feshbach, "Methods of Theoretical Physics", I. Mac Graw-Hill, New York,

SUBMITTED: May 9, 1960

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APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

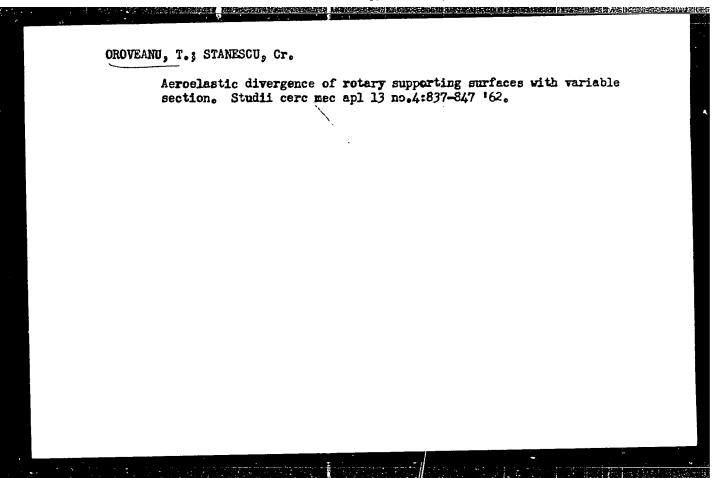
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1. Commicare presentata de academician E.Carafoli.

ment by water in a porous apl 13 no.3:719-728 '62.



ACCESSION NR: AP3003830

R/0008/63/000/003/0497/0506

AUTHOR: Oroveanu, T.

TITLE: Some considerations on the flow of compressible fluids through nonhomogeneous porous media

SOURCE: Studii si cercetari de mecanica aplicata, no. 3, 1963, 497-506

TOPIC TAGS: compressible fluid, porous medium, nonhomogeneous medium, specific density, variable permeability

ABSTRACT: This is a continuation of some previous work on the flow of compressible fluids. The author modifies the Darcy law to fit the case of nonhomogeneous media given by T. Oroveanu in "Considerations on the Flow of Compressible Liquids Through Nonhomogeneous Porous Media," Studii si cercetari de mecanica aplicata 12, 2, 1961. The equation is:

$$\frac{\partial v_i}{\partial t} = -\frac{\partial V}{\partial x_i} - \frac{1}{\rho} \frac{\partial L}{\partial x_i} - \frac{\ell L}{\rho k} v_i \quad (i = 1, 2, 3)$$

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ACCESSION NR: AP3003830

where v<sub>i</sub> = velocity, p = specific density

p = pressure

μ = dynamic coefficient of viscosity k = permeability of the porous medium, a scalar

y = potential due to external forces per unit mass of fluid.

The author then proceeds to derive from this equation the differential equation of the specific mass of the specific pressure. Next he repeats the same procedure to derive the same equations for the case when the fluid is a gas. Orig. art. has: 45 equations.

ASSOCIATION: none

SUBMITTED: 00

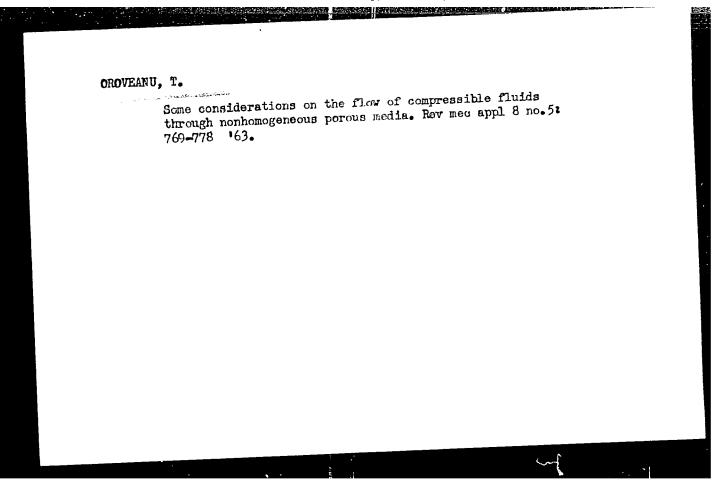
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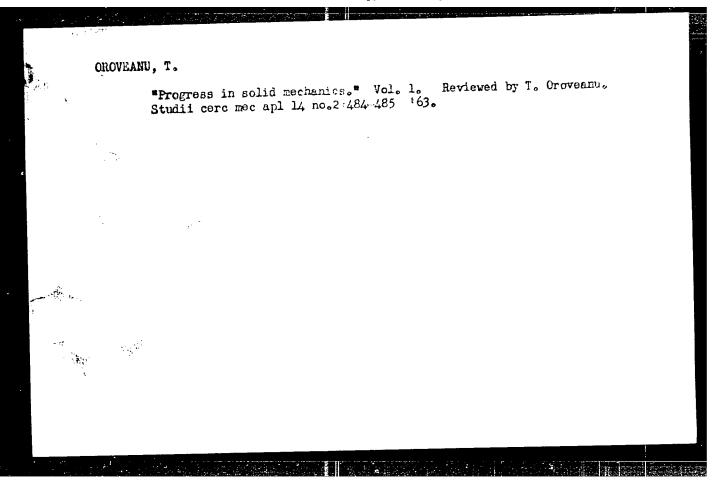
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OTHER: 002

Card 2/2





# Considerations on the flow of compressible fluids through nonhomogeneous porous media. Studii cerc mec apl 14 no.3: 497-506 '63.

## OROVEANU, T.

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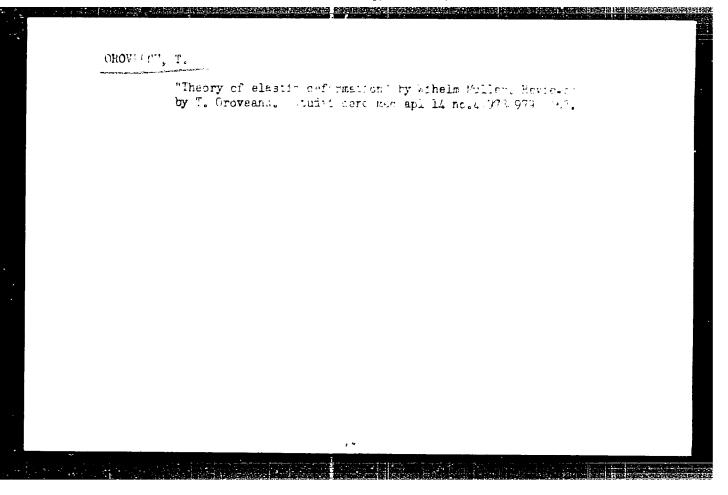
On gravitational desaturation of a porous medium. Studii cerc mec apl 15 no.1:35-53 '64.

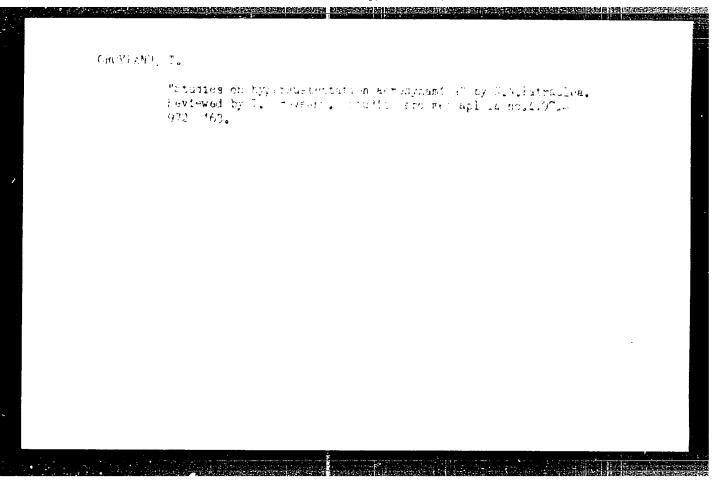
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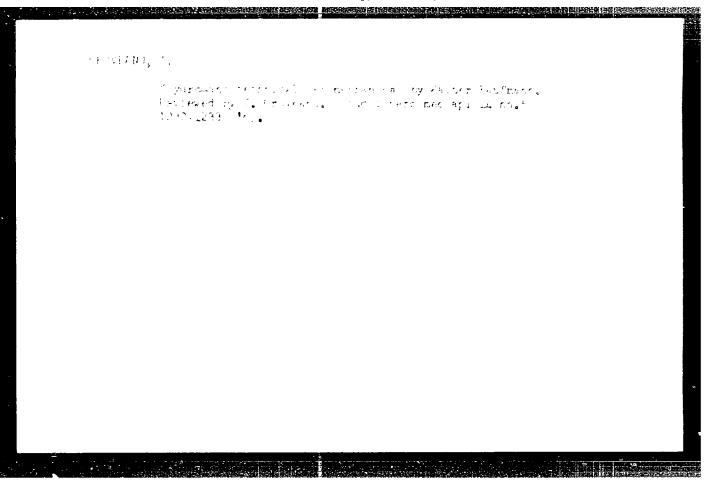
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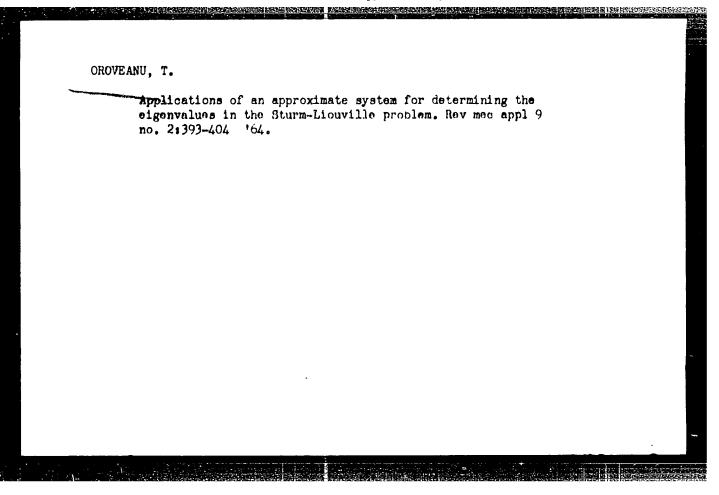
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1. Institututal de petrol, geze si geologie din laucuresti (for Osnea).







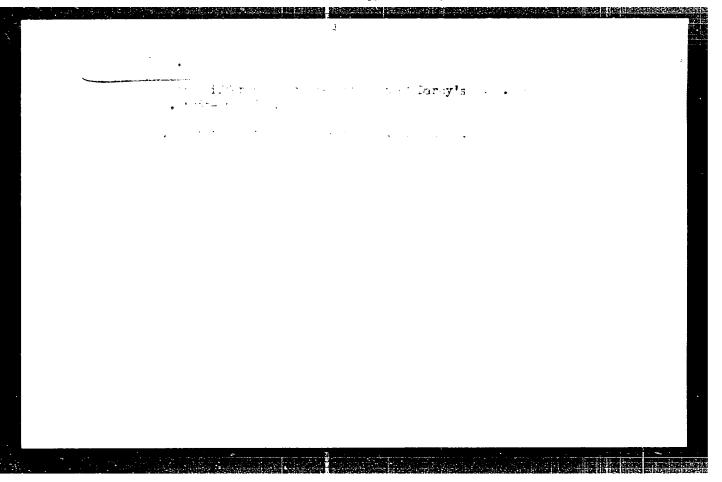


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Linear flow of a compressible liquid through a porous medium.

Rev mec appl 9 no. 3:581-599 '64.

1. Petroleum, Gas and Geology Institute, Bucharest.



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OROVEANU, T.

On the differential representation of Darcy's Law. Studii cerc mec apl 15 no.2:487-494 '64.

1. Submitted December 5, 1963.

CROVEANU, T.

Considerations on the flow in the case of dislocation of petroleum by water in fissured porous media. Studii cerc mec apl 16 [i.3. 15] no.3:623-634 '64.

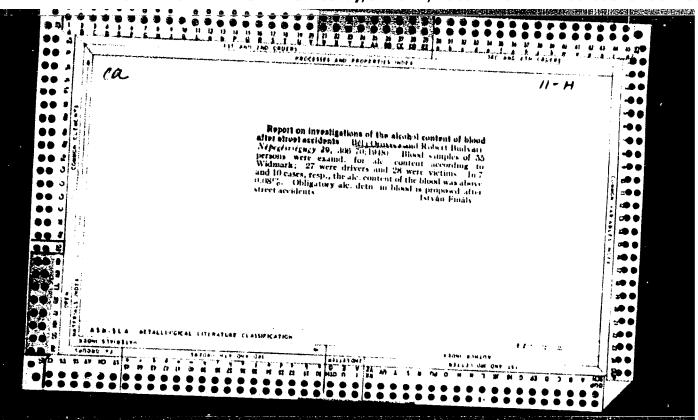
1. Submitted January 20, 1964.

OROVECZ, B. 1948

(Orszagos Mentoszolgalat es a budapesti Paz.Pet/Tud.Torvenyskzeki Orvostani Intezetenek Kozlemenye)

"On Blood Alcohol Determinations Fallowing Road Accidents."

Nepegeszs., Budspest, 1948 4/24(366-370) Abst: Erc. Med. V. Vol. 11, No. 5, p. 404



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OROVECZ, B. (6210)

Alkohol kimutatasa a kilegzett levegoodl az. u. n. Harger-eljaras segittereval Determination of alcohol in expired air with Harger's method. Orvosi Hetilap, Prague 1949, 90/9 (274-277) Illus. I

The availability of Harger's potassium permanganate test is discussed and a special bag, for use in police and industrial health stations is described. The great advantage of the test lies in its practical use in cases of street and industrial accidents.

Balint - Budapest

So: Excerpta Medica, Vol. II, No. 12, Sec. II, December 1949

OROVECZ, Bela, Dr.

Mass accidents and their care. Hepegeszsegugy 38 no.6:153-157 June 57.

1. Kozemeny oz Orsvagos Mentoxolaglatol (foigazgato: Orovecz Bela dr.)

(DISASTERS

mass casualties, organiz. of care (Hun))

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IVANYI, Jeno, dr.; OHOVECZ, Bela, dr.

Fatal electric injuries in Budapest in 1952-1955. Orv. hetil. 98 no.15:382-386 14 Apr 57.

1. A Fovarosi Villamosvasut Egessegugyi Osstalya (vezetp: Kontra, Laszlo, dr.) Orasagos Mentossogalat (foigasgato: Orovess, Bela, dr.) kozlemenye.

(ELECTRICITY, inj. eff.
fatal accid. in Budapest, statist, (Hun))

(ACCIDENTS, statist.
electric accid. in Budapest, fatal (Eun))
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OROVECZ, Bela, dr.; IRANYI, Jeno, dr.; SOMOGYI, Endre, dr.

Preventive measures for protecting employees working in electromagnetic fields. Munkavedelem 6 no.4/6:34-39 160.

1. Orszagos Mentoszolgalat; Orszagos Rheuma es Furdougyi Intezet Fizikotherapias Jarobetegrendelese; Budapesti Orvostudomanyi Egyetem Igazsagugyi Orvostani Intezete.

OROVECZ, Bela, dr.; IRANY, Jeno, dr.; SOMOGYI, Endre, dr.

Are radio-frequency electric waves harmful? Mmsz elet 15 no.12:6
Je \*60. (EEAI 9:9)

(Electric waves) (Radio)

IRANYI, Jeno, dr.; OROVECZ, Bela, dr.; SOMOGYI, Endre, dr.

Disorders of the vegetative nervous system caused by complex of physical factors. Orv.hetil. 101 no.27:941-945 3 J1 160.

1. Orszagos Reuma- es Furdougyi Intezet. Orszagos Mentoszolgalat, Budapesti Orvostudomanyi Egyetem, Igazsagugyi Orvostani Intezet. (AUTONOMIC NERVOUS SYSTEM dis.)

LEBEDEV, T.S.; SOBAKAR', G.T.; OROVETSKIY, Yu.P.; BOLYUBAKH, K.A.

Geologic structure of the conjugated zone of Pokrovo-Kireevskiy and Tel'manovo blocks in the northeastern part of the Azov Sea region.

Geofiz.sbor. no.1:32-36 '62. (MIRA 16:3)

1. Institut geofiziki AN UkrSSR.

(Azov Sea region--Geology, Structural)

IEHEDEV, T.S. [Lebediev, T.S.]; SOBAKAR', G.T. [Sobakar, H.T.]; OROVETSKIY, Yu.P. [Orovets'kyi, IU.P.]; BOLYUBAKH, K.A.

Recent data on the geological structure of the zone of junction of the Pokrovo-Kireyevo and Tel'manovo blocks (northeastern part of the region of the Sea of Azov).

Dop. AN URSR no.1:91-94 '62. (MIRA 15:2)

1. Institut geofiziki AN USSR. Predstavleno akademikom AN USSR V.G.Bondarchukom [Bondarchuk, V.H.].

(Donetsk Province—Geology, Structural)

LEBEDEV, Taras Sergeyevich; SOBAKAR' Grigoriy Timofeyevich;

OROVETSKIY, Yuriy Pavlovich; BOLYUBAKH, Klavdiya
Antonovna; SUBEOTIN, S.I., akademik, otv. red.;
MEL'NIK, A.P., red.izd-va; RAKHLINA, N.P., tekhn. red.

[Tectonics of the central part of the northern slope of the Crimean Mountains and results of its studying; based on geophysical and geological data] Tektonika tsentral'-noi chasti severnogo sklena Krymskikh gor i opyt ee izu-cheniia; po materialam geofizicheskikh i geologicheskikh issledovanii. [By] T.S.Lebedev i dr. Kiev, Izd-vo Akad. nauk USSR, 1963. 85 p. (MIRA 16:5)

1. Akademiya nauk Ukr.SSR (for Subbotin). (Crimean Mountain—Geology, Structural)

LEBEDEV, T.S. [Lebediev, T.3.]; SOBANCAL, G.T. [Sobakar, .T.]; OROV TSKIY, Yu.P. [Orovets Levi, IU.F.]; BOLYUBANA, K.A.

New data on the tectomics of the central part of the northern slope of the Crimean Mountains on the Dasis of the materials of geophysical studies. Dop. AN URBE no.3:3 46-390 163. (\*T.A 17:10)

1. Institut georlziki A. Ukrdon. Presstavleno atalemikom All Pressa S.I. Subbotinym.

LEBEREY, T.S.; SORAKAR, G.T.; OROVETSKIY, Yu.P.

Physical properties, composition, and age of crystalline shales, sandstones, and spilite-type rocks in the northeastern Azov Sea region. Geofiz. sbor. no.4:19-27 '63. (MIRA 16:9)

l. Institut geofiziki AN UkrSSR.

BONDAREV, S.N.; OROVEY, N.Ya.; SOKOLON, I.I.

Pouring liquid magnesium into a titanium reactor. Titan i ego
splavy no.6:21-22 '61. (MIRA 14:11)

(Titanium--Metallurgy)

14393

R/016/62/007/005/002/003 A001/A101

10.6100

AUTHORS: Orovyanu, T., Stenesku, K.

TITLE:

On aeroelastic divergence of rotating carrying surfaces having

variable cross-section

PERIODICAL: Académie de la République Roumaine. Revue de Mécanique Appliquée,

v. 7, no. 5, 1962, 915 - 925 (Russian translation)

TEXT: The authors investigate the problem of determining the rate of twist divergence of a variable cross-section carrying surface rotating around some axis. They consider a cantilever carrying surface of variable cross-section (see Figure 1) with a rectilinear elastic line Oy in the following system of coordinates:  $x_1 = x$ ,  $y_1 = y - a$ ,  $z_1 = z$ ; it is assumed that the surface rotates around axis Oz perpendicular to Oy. The differential equation of the elastic twist angle y looks as follows:

$$\frac{\mathrm{d}}{\mathrm{d}\eta}\left[\left(1-\beta\eta\right)^{4}\frac{\mathrm{d}\varphi}{\mathrm{d}\eta}\right]+\lambda(1-\beta\eta)^{2}(\alpha+\eta)^{2}\varphi=0. \tag{14}$$

Card 1/4

On aeroelastic divergence of ...

R/016/62/007/005/002/003 A001/A101

(15)

and the corresponding boundary conditions are:

 $\gamma = 0$ ,  $\varphi = 0$ ,

 $\gamma_l = 1, \quad \frac{\mathrm{d} \varphi}{\mathrm{d} \gamma} = 0, \tag{16}$ 

where  $\alpha = \frac{a}{b}$ ,  $\beta$  is defined by the relation:  $\frac{e}{e_0} = 1 - \beta \frac{y_1}{b}$ ,  $\eta = \frac{y_1}{b}$  (a, b and e are shown in the Figure), and  $\lambda$  is a quantity depending on the structural parameters of the surface and the value of dynamic pressure. The problem is thus a particular case of the Sturm-Liouville problem, and determination of divergence rate is reduced to finding the least eigenvalue of parameter  $\lambda$ . Since the solution of this second-order differential equation is difficult, the authors apply the variational method sufficient to determine the eigenvalues of Equation 14 which is re-written in the operator form:

$$A\varphi - \lambda B\varphi = 0 \tag{17}$$

It is proved that operators are symmetric and positive-definite. According to the Ritz method, the n-order approximation of solution of Equation (17) is ex-Card 2/4

On aeroelastic divergence of... R/016/62/007/005/002/003
A001/A101

pressed like this:

$$\varphi_{n} = \sum_{k=1}^{n} a_{k} f_{k}, \qquad (25)$$

where  $\mathbf{a}_{k}$  are constants. To determine  $\lambda\text{,}$  the authors write down the equation

$$(Af_k, f_m) - \lambda(Bf_k, f_m) = 0,$$
 (27)

whose least root represents the eigenvalue sought for. The elements  $f_n$ , called coordinate functions, are linear independent and satisfy both boundary conditions of the problem; they look as follows:

$$f_1 = \eta^2 \left( \eta - \frac{3}{2} \right), f_k = \eta^{k-1} (1 - \eta)^2, k = 2, 3, \dots$$
 (28)

It is usually sufficient to limit oneself to the second approximation, in which case  $\lambda$  is the least root of an equation of second degree. Using this approximation the authors carry out numerical calculations for several particular values of parameters of and  $\beta$  and present the results in the tabular and graphical form.

Card 3/4

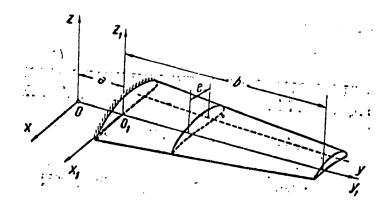
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From the analysis of the results it is concluded that divergence rate in cases of large  $\beta$ -values is considerably higher than in the case of a constant cross-section carrying surface. There are 3 figures and 6 tables.

Figure 1.



Card 4/4

BLINOV, N.O.; VORONIN, V.V.; OROYEV, I.I.; KHOKHLOV, A.S.

Automatic camera for chromatography on paper. Lab.delo 9
no.3:58-59 Mr '63. (MIRA 16:4)

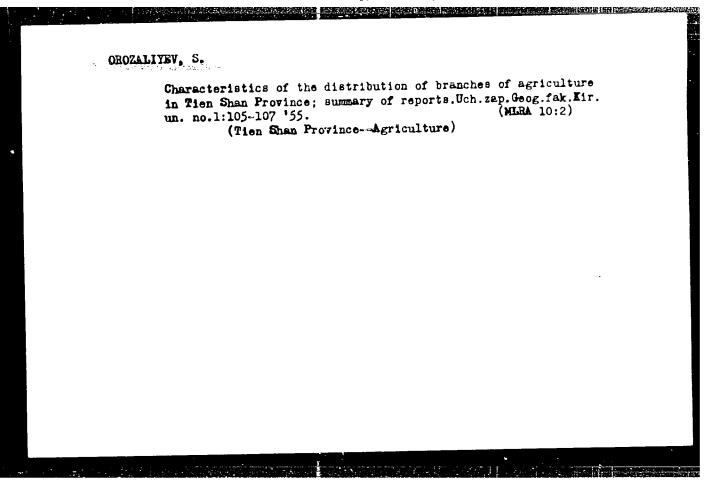
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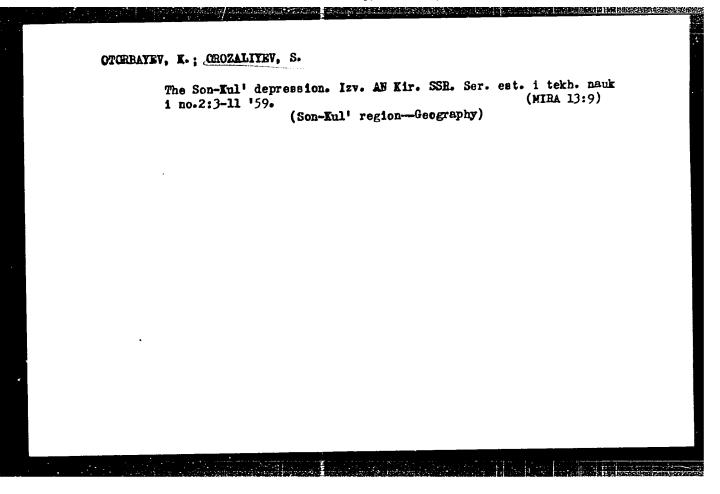
(PAPER CHROMATOGRAPHY)

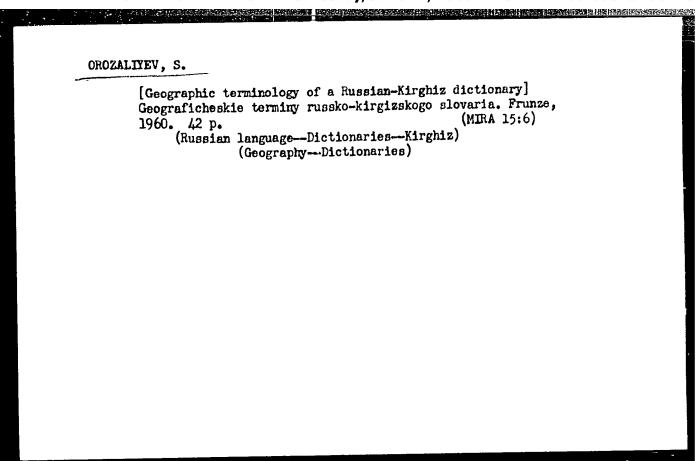
SHERSTOBITOV, Viktor Pavlovich; OROZALIYEV, K.K., kand. ist. nauk, red.

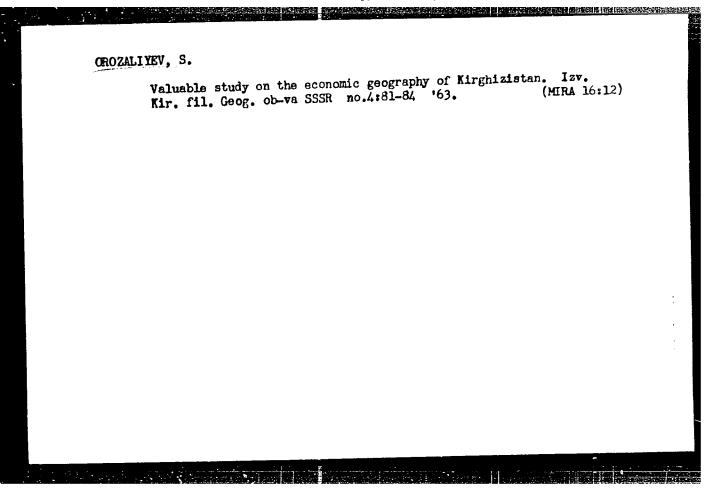
[The New Economic Policy in Kirghizistan, 1921-1925] Novaia ekonomicheskaia politika v Kirgizii (1921-1925).

Frunze, Ilim, 1964. 610 p. (MIRA 17:12)









## OROZBAYEV, T.

Effect of fertilizers on the yield and chemical composition of grasses in Aksay. Izv. AN Kir. SSR Ser. biol. nauk 4 no.6: 47-55 '62. (MIRA 16:6)

(Plants—Chemical analysis)
(Aksay(Kirghizistan)—Pastures and meadows—Fertilizers
and manures)

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ACCESSION NR: AP5002913

8/0109/65/01.0/001/0178/0181

AUTHOR: Turusbekov, M. T.; Orozobakov, T.

TITLE: Investigation of ultrashort-wave propagation beyond a series of obstacles

SOURCE: Radiotekhnika i elektronika, v. 10, no. 1, 1965, 178-181

TOPIC TAGS: ultrashort wave, ultrashort wave propagation, diffraction wave, Fresnel integral, Fresnel zone

AESTRACT: A series of experiments was conducted in order to gain information on ultrashort-wave propagation in mountain terrain. Escause of the multiplicity of factors affecting propagation under such conditions the investigation was limited to diffraction propagation in the absence of signals reflected from the Earth's surface before and beyond the obstacles. A diagram is presented showing the disposition of the reception and transmission points and the obstacles (sheet metal or textolite shields). All the experiments were carried out at  $\lambda = 3.2$  cm. A standard-signal

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ACCESSION NR: AP5002913

pattern, 3°). On the basis of both experimental and theoretical data, the following conclusions were made: 1) The common diffraction multiple of field attenuation beyond several obstacles is determined by the product of the diffraction multiples of each individual obstacle. 2) The argument values of Fresnel integrals are determined by different formulas depending on the region in which the reception point is mined by different formulas depending on the field at the reception point have either located. 3) The predominant effect on the field at the reception point is shaped

SUB CODE: EC

ASSOCIATION: none

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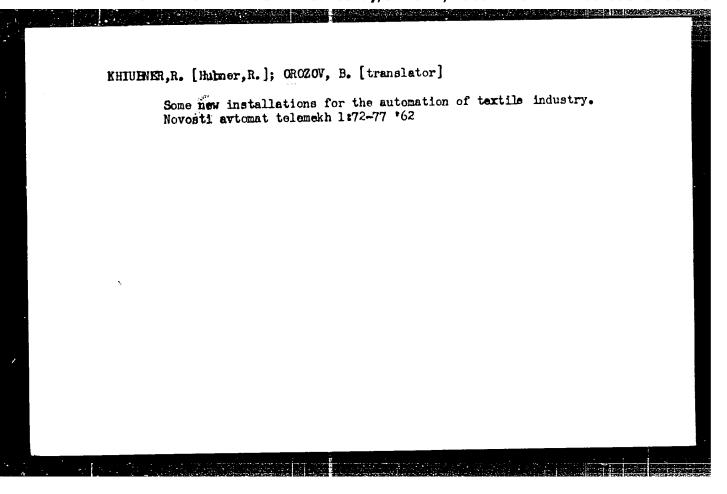
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OROZOV, DIM AL.

Orozov, Dim Al, Tekhnologiia na tukachestvoto za IV i V klas Sofiya (Narodna prosveta) 1951. 238 p. (Technology of weaving; a textbook for the 4th and 5th years of textile Gymnasiums)

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, LC., VOL. 3, NO. 1, Jan. 1954, Uncl.

OROZOV, Dim., inzh.

Form and position of the shuttle box valve. Leka promishl 2 no.8:9-11 '53.

THE RESERVE OF THE PROPERTY OF

# OROZOV, D. "Methods for Raising the Production of Warpers." p. 30, (LEKA PROMISHLENOST, Vol. 3, No. 3, 1954, Sofiya, Bulgaria) SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4 No. 5, May 1955, Uncl.

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Onclov, D. Factors for increasing the productivity of the long. p. o.

Vol. p. ac. p. 19p6
Like PROMITE SHOST.
THOUNGLOST
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So: East European Accession, Vol. 6, No. ., Herch 1:7

OROZOV, D.

Practical instructions for mixing synthetic fibers with wool in the worsted and carding spinning plants. p. 13.

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TEKSTIINA PROMISHLENOST, Sofiia, Bulgaria, Vol. 8, no. 2, 1959.

10, Oct.
Monthly List of East European Accessions (EEAI) LC, Vol. 1, no./1959, Uncl.

OHOZOV, Dimitur, inzh., uchitel-spetsialist

Basic adjustment of the Bulgarian automatic "IAntra-1" and IAntra-2" cotton looms. Tekstilna pron 10 no.5:15-21 '61.

1. Pri tekhnikuma po tekstil, Gabrovo.

OROZOV, D., inzh.

Instructions on the parallel regulation of the mechanisms of automatic looms "IAntra-1" and IAntra-2" with the aid of patterns. Tekstilna prom 11 no.3:12-14 '62.

1. U-1 pri Tekhnikuma potekstil, Gabrovo.

### OROZOV, Dimitur, inch.

Basic adjustments on wool weaving looms. Pt.2. Tekstilna prom 12 no.2:12-19 '62.

1. Uchitel-spetsialist pri Tekhnikuma po takatil, Gabrovo.

CRCZOV, Dimitur, inzh., u-l spetsialist

Basic adjustments on wool weaving looms. Pt. 1. Tekstilma prom 12 no.1:17-23 %63.

1. Tekhnikum po tekstil, Gabrovo.

URPEL, M. A.

SOV/ 1-5, -15-1

Translation from: Referativnyy zhurnal. Khimiya, 1909, Nr 15, p 365 (0.33R)

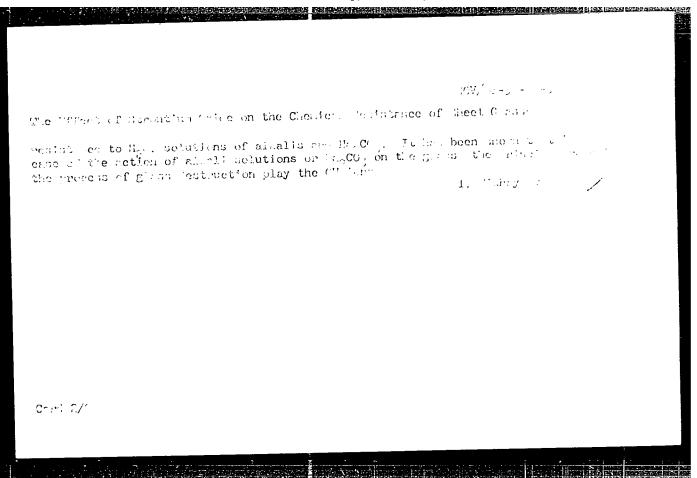
THORS: Savitskiy, The., Ageyenkova A... Orpel', M.A., Pshenichnicova, 1.3

The Effect of Otruntium Oxide on the Chemical Resistance of Licet Godses

TRIODICAL: Byull tellin -e on, inform, Sovnarkhoz BSSR, 1950, Nr S. J. - 3

CT:

A total of / glasses have been synthesize) on the base of the acomposition (in ): If p-12. Alges-1. Ca. -/. TgC-1. Nage-12. which move in prosection meetice to be the best composition for sheet glass. The effect the substitution of Ca. by Sr., and MgC by Sr. on the cleater resolutioned of the glasses included; Sr. is introduced that the emposition of the glasses included of the mentioned exides the epicole-cular quantities. And accordance to the mentioned exides the principle-cular quantities. And accordance the substitution of the glasses included of the mentioned exides the principle cular quantities. And accordance the substitution of the glasses included the mentioned by the resolution of CC3. In CC3. The employer resolutioned management of adona of the CC3. It is in RC3 in its conting to the content of the content

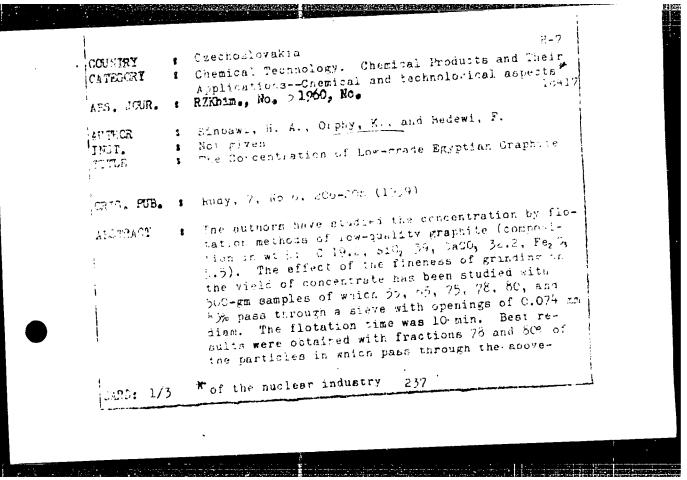


BAUM, V.A., doktor tekhn. nauk, otv. red.; ORFIK, S.L., red.

[Utilization of solar energy in the national economy of the U.S.S.K.] Ispol'zovanie solnechnoi energii v narodnom khoziaistve SSSE. Moskva, Nauka, 1965. 125 p.

(MIRA 18:4)

1. Moscow. Energeticheskiy institut.



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